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DESCRIPTIONS OF NEW SPECIES OF TRIGONALIDÆ, STEPHANIDÆ AND ICHNEUMONIDÆ.

BY G. C. DAVIS.

TRIGONALIDÆ.

Trigonalis sulcatus n. sp.

♂.—7 mm. Pilose, black, with orbital lines except above, diagonal spots beneath antennæ, another on mandibles, scape beneath, tegulæ, line above, humeral line above, stripe above anterior coxæ, spot on anterior pleuræ, stripes on mesonotum inside of parapsides, scutellums, band between meso- and metanotum, lateral apical spots on metathorax, apical margins on all abdominal segments, broad on second, and most of the legs, yellowish white; coxæ partly black and tibiæ and tarsi of hind leg with a rufous tinge; antennæ pale reddish brown; wings hyaline, except front apical margin, covering the marginal cell and a part of those bordering it; nervures and stigma reddish brown; body coarsely punctured, but with a faint shining reflection; parapsidal grooves deep, distinct; scutellum with a deep longitudinal groove in the middle; no carinæ on metathorax or basal segment of abdomen.

One specimen from Anglesea, N. J. (Prof. J. B. Smith).

STEPHANIDÆ.

Megischus floridanus n. sp.

♂ ♀.—♀ 20 mm.; ovipositor, 22 mm.; ♂ 6 mm. Black, with head, thorax and tarsi slightly reddish, decidedly so in ♂; guides of the ovipositor in ♀ with a broad white band near the apex; wings yellowish fusco-hyaline, nearer hyaline in ♂; front, vertex, thorax, hind coxæ and petiole strongly rugose and more or less reticulate, distinctly so on vertex and prothorax, and in ♀ on petiole, becoming finer toward apex; front above antennæ very rough and with the five tubercles distinct, the last two placed between the hind ocelli; heel segment of hind tarsi with large, dense white scopal pads.

Two specimens from Florida; collected June 15th by Mr. T. C. Priddey.

Megischus canadensis n. sp.

♀.—14 mm. Black, with cheeks beneath and posterior tarsi dirty yellow; four anterior legs with tibiæ, tarsi and apical trochanter, also hind trochanters, pale piceous; wings hyaline, nervures and stigma reddish brown; the sculpturing is different and much finer than in the preceding species; the head, including face, is circularly reticulate, very finely so on the occiput; prothorax coarsely reticulate; petiole irregularly transversely wrinkled; five spines of the head are more transverse, prominences and the anterior ocellus is in a broad, rather deep basin; ovipositor 18 mm., guides broken.

One specimen from Toronto, Canada; collected July 15th by Mr. T. C. Priddey.

ICHNEUMONIDÆ.

Ichneumon pacificus n. sp.

♂.—12 mm. Black, with abdomen, except two apical segments, and legs beyond basal trochanter, rufous; antennæ tapering, verticillate; wings fuliginous, nervures black, stigma yellowish; areolet very broad above; body polished, coarsely punctured, metathorax rugosely so; lateral basal areas glabrous and with scarcely a puncture; postpetiole polished, slightly scabrous laterally; gastroceli large, very broad; abdomen subtruncate at apex; ventral fold visible nearly to apex.

One specimen from Seattle, Wash. (Prof. Trevor Kincaid).

Ichneumon pygmæus n. sp.

♀.—4 mm. Ferruginous, with occiput, thorax except scutellums, spot before, margins of prothorax, spot on pleuræ and apical portion of metathorax, extreme apex of hind tibiæ and petiole at base, black; tegulæ and annulus on antennæ white; scape large, yellow beneath; wings subhyaline, nervures and stigma brownish yellow; antennæ subclavate, about as long as head and thorax; segments short; body shagreened; thorax sparsely punctured; metathorax excavated behind and finely transversely reticulate, carinæ obsolete at base; abdomen slender and pointed; petiole slender, postpetiole shagreened as in the rest; legs subrobust, not twice as long as the abdomen.

Two specimens from Mt. Washington, N. H. (Mrs. Slosson).

Ichneumon faciens n. sp.

♂.—7 mm. Head and thorax black, legs and abdomen rufous; face, mouthparts, cheeks beneath, anterior orbits, orbital spot above, scape beneath, line in front of tegulæ, one beneath, apex of scutellum and anterior coxæ beneath, pale yellow; tegulæ, rest of scutellum and postscutellum, fulvous; antennæ blackish; wings hyaline, nervures and stigma brown; body rather closely and coarsely punctured; metathorax rugose, deeply and narrowly excavated behind and transversely reticulate; superior median area not defined, but mostly glabrous; abdomen slender; postpetiole punctured as with the rest, gastroceli broad and deep; legs rather slender, hind femora and coxæ slightly inflated.

One specimen from Colfax, Idaho (Prof. Aldrich).

Ichneumon nigrotergus

♀.—10 mm. Rufous, with the tergum of the abdomen beyond petiole, three basal segments of hind tarsi and extreme apex of hind tibiæ black or piceous black; antennæ longer than head and thorax tapering, dusky toward apex, yellowish in the middle; wings dark fuscous, nervures and stigma black; head and thorax polished, moderately punctured, metathorax most so and with subobsolete carinæ above; abdomen broad, tapering to a point posteriorly; apical segments finely punctured, postpetiole and base of second segment coarsely aciculate; ovipositor exerted, gastroceli deep; legs long and slender.

One specimen from Custer, So. Dakota (Prof. Aldrich).

Ichneumon blanchardi n. sp.

♀.—8 mm. Rufous, with apical margins of abdominal segments 2 and 3, apical half of 4, all of 5 and 6, upper half of posterior femora and trochanters and four posterior tibiæ except inner portion at base, black; hind tarsi piceous, apical seg-

ment of abdomen reddish yellow; antennæ large, shorter than head and thorax, subclavate, fuscous toward tip, a yellow annulus in the middle; wings fuscous, stigma and nervures dusky rufous; body thickset, coarsely punctured, confluent so on second and third abdominal segments; head normal, face slightly inflated; mesonotum and scutellum flat, depressed; metathorax deeply excavated behind, margined in front by the arcuate second transverse carina; superior median area obcordate, glabrous; abdomen broad, oval, depressed, not strongly narrowed at apex; ovipositor exerted, postpetiole finely aciculate, gastroceli shallow, elongate; legs short, robust, anterior femora normal.

One specimen from Mt. Lafayette, N. H.; collected by the coleopterist, Mr. F. Blanchard, to whom the species is dedicated.

Hoplismenus transversus n. sp.

♂.—9 mm. Black, with abdomen except extreme base, femora and most of mesonotum, rufous; posterior coxæ and hind tibiæ beneath piceous; face, mouthparts, orbits broken above, scape beneath, tegulæ, spot before, line beneath scutellum, prothoracic collar, four anterior coxæ and trochanters beneath and all tarsi, yellow; basal half of hind heel, most of their tibiæ and apex of their femora black; antennæ long, tapering, brown, yellowish beneath; wings subhyaline, nervures and stigma brown; second recurrent nervure mostly wanting; head small, narrowed beneath; thorax large, gibbous, coarsely and closely punctured; scutellum elevated and with lateral and a large transverse median carina; metathorax rugosely punctate and with large tuberculate spines, carinæ distinct; abdomen punctured, subpolished; segment 2 very broad and long, postpetiole strongly arched, slightly punctured; legs slender, more than twice as long as abdomen.

One specimen from Moscow, Idaho (Prof. Aldrich).

Amblyteles torontosus n. sp.

♀.—17 mm. Black, with broad annulus on antennæ, humeral line before tegulæ, line beneath tegulæ, scutellum, broad annulus on all tibiæ, and spot on three apical segments of abdomen, white; wings yellowish subhyaline, nervures and stigma reddish brown; body large, thickset, coarsely punctured, three basal segments of abdomen opaquely so; pilose, especially venter and apex of abdomen and tarsi; scutellum broad, oval; postscutellum aciculate; metathorax rugose, median areas very large, basal one wanting; postpetiole rugose, aciculate; abdomen broad and large, very obtuse at apex, venter of 1-3 with fold.

Two specimens from Toronto, Canada (Mr. Priddey).

Amblyteles tricolor n. sp.

♂ ♀.—11-13 mm. Black, with abdominal segments 2 and 3 ferruginous, and in ♀ postpetiole also; ♀ with annulus on antennæ, scutellum and spots on two apical segments of abdomen white, also more or less distinct supraorbital spots, spot on upper collar, line in front and another beneath tegulæ, white; rest of antennæ black, blackish fulvous in ♂ and black at base; wings yellowish fuscous, nervures brown, stigma yellow; body slender, coarsely and closely punctured; metathorax completely areolated, median areas no wider than lateral, basal small; abdomen slender, obtuse at tip, petiole aciculate in ♂, polished in ♀, three basal segments with fold.

Four specimens from South Dakota (Prof. Aldrich).

Trogus apicatus n. sp.

♂.—15 mm. Black, with the abdomen deep blue; tibiæ and tarsi, anterior femora and apex of middle femora fulvous; wings fuliginous, purple reflection, and with a large white spot on the apex of each primary wing; nervures varying from reddish to black, stigma black; thorax punctured; prothorax, upper pleura and base of metathorax sparsely so; rest of metathorax strongly rugose, especially the median area, which is long and with a central longitudinal ridge, basal transverse carina prominent; scutellum conical with the apex bent backwards; abdomen broad, depressed, segments densely rugose and much constricted at base; a distinct median carina extends backward from base of 2.

One specimen from Crawford Notch, N. H. (Mrs. Slosson). In color this species resembles *fulvipes* Cress., but structurally and in the pale apical spot on the wings it differs considerably.

Platylabus incabus n. sp.

♀.—9 mm. Black, with abbreviated anterior orbits, cheeks around base of mandibles, tegulæ, spot before, apex of scutellums and small annulus on antennæ, distinctly white, but small; legs clear ferruginous, with hind tarsi and extreme apex of hind tibiæ black; wings hyaline, nervures brown, stigma black; antennæ long, slender, brown, with yellowish pubescence; body punctured, subpolished; scutellum with distinct, elevated lateral carinæ; metathorax with median and two lateral apical areas transversely reticulate; superior area glabrous; tergum of petiole polished, of postpetiole shagreened; abdomen depressed, ovipositor slightly exerted; legs large and strong.

One specimen from Moscow, Idaho (Prof. Aldrich).

Platylabus bakeri n. sp.

♂.—7 mm. Rufous, with head, prothorax, mesonotum and abdomen beyond second segment, black; broad orbital lines interrupted below, face except black transverse spot above clypeus, clypeus except central apical spot, mandibles, palpi, scape beneath, collar, humeral line, line beneath each wing, stripes on disc of mesonotum, scutellums, spots on posterior and anterior mesopleuræ, two spots on metathorax above hind coxæ, broad apical margin on all abdominal segments, more or less of four anterior coxæ and trochanters and annulus on antennæ, white; hind legs with their femora at apex, apical third of tibiæ behind and their tarsi piceous to black; antennæ dark brown, long as body; wings hyaline, nervures and stigma brown, areolet sessile above; body punctured, subpolished; scutellum with strong lateral carinæ; metathorax rugose, superior area subpolished, apical areas irregularly reticulate, petiole of abdomen very broad, finely and rather sparsely punctured.

One specimen from Howard Baker, of Ann Arbor, Mich., and dedicated to him for the interest he has taken in collecting specimens in this family.

Platylabus foxi n. sp.

♂.—8 mm. Head and thorax black; dorsum of three basal segments of abdomen, extreme apex of hind tibiæ, three apical segments of hind tarsi and most of antennæ opaque piceous; rest of legs and abdomen mostly rufous; face, scape beneath, annulus on antennæ, broad orbits, cheeks, mouth-parts, collar, most of

pectus, humeral line, tegulæ, stripe beneath, stripes on disc of mesonotum, stripes at basal angles of scutellum, scutellums, most of pleuræ and sternum, large spot covering metapleuræ, apical spot on metasternum enclosing the spines, but black in the center; petiole, except spot enclosing spiracles, broad margin (subapical in some) of all the following segments, four anterior coxæ and trochanters, large spot at base above and apex below on hind coxæ, most of their trochanters and two basal segments of hind tarsi, yellowish white; wings hyaline, nervures and stigma reddish brown; areolet sessile at base; body closely punctured, subpolished, opaquely and rugosely punctured on metathorax and three basal segments of abdomen; carinæ on scutellum and metathorax prominent; spines on metasternum long, distinct, areas transversely reticulate; petiole of abdomen scabrous and with two prominent carinæ.

One specimen from Camden, N. J.; collected by Mr. Wm. J. Fox, and donated with other Ichneumonidæ. It gives me pleasure to name this beautiful species after him in honor of the many kindnesses shown me in this work.

Platylabus opacitas n. sp.

♂.—11 mm. Pale ferruginous and opaque owing to the body being closely and finely punctured and the dorsal part being shagreened also: sutures before and behind scutellums, band at base of segment 3 of abdomen and apex of posterior tibiæ, black; face, orbits, scape beneath, mouth parts, tegulæ, spots before and beneath, scutellums, four anterior coxæ and trochanters, basal half of posterior tibiæ and an annulus on hind tarsi, pale or reddish yellow; wings yellowish subhyaline with nervures and stigma varying from black to yellowish brown; areolet very large, pentangular; antennæ as long as body, tapering, blackish above toward apex; scutellum distinctly but not strongly margined; spines of metathorax prominent and in the areas bordering them the surface is roughly reticulate: median apical area long, rectangular, transversely and finely reticulate; basal part of metathorax rugose and without distinct carinæ; postpetiole very broad, shagreened and punctured; legs long and strong.

One specimen from Moscow, Idaho (Prof. Aldrich).

Eurylabus osrufus n. sp.

♀.—8 mm. Black, with lower half of head, antennæ, legs and four basal segments of abdomen deep rufous: wings fuscous, nervures and stigma reddish brown; body stout, punctured, subpolished; head nearly quadrate, very short between base of antennæ and clypeus; metathorax more closely punctured, completely areolated, second transverse carina very prominent; abdomen, including petiole, shagreened, oval; apex subcompressed, truncate; ovipositor slightly exerted, vertical to the apex and slightly curved upward.

One specimen from Illinois (Dr. Nason).

Eurylabus separatus n. sp.

♂.—10 mm. Black, with broad anterior and posterior orbital lines separated above and below, two dots on clypeus, inner half of antennal segments 9-13, humeral margin in front of tegulæ, line beneath tegulæ, scutellum and broad apical margins of abdominal segments beyond 3, white: anterior tibiæ and tarsi and extreme apex of abdominal segments 2 and 3 reddish yellow; wings faintly

subhyaline, nervures and stigma brown; body polished, moderately punctured; scutellum oval, transversely elevated: metathorax broad, completely areolated, apical median area elongate, largest, and is transversely and coarsely reticulate: abdomen depressed, broad on median segments; gastroceli large, deep and reticulate; postpetiole broad, polished, sparsely punctured.

One specimen from Algonquin, Ill. (Dr. Nason).

Eurylabus commodus n. sp.

♂.—8 mm. Black, with abdomen beyond extreme base of petiole and legs beyond basal trochanters, rufous; extreme tips of hind tibiæ fuscous; face, except two submedian lines reaching from antennæ to sides of clypeus, tegulæ, spot before and scutellums, brownish yellow; antennæ piceous beneath; wings subhyaline, nervures brown, stigma yellowish; head and thorax subpolished, closely punctured; scutellum somewhat elevated, rounding; metathorax rugosely punctured, carinæ rather small, subspinose; abdomen depressed, rather broad, very closely punctured; petiole and base of segment 2 rugosely punctate, postpetiole rugosely aciculate.

One specimen from Washington (Prof. O. B. Johnson).

Exolytus dakotænsis n. sp.

♂.—7 mm. Black to piceous, with clypeus, mandibles, palpi, prothorax, scutellum, legs and 2-3 basal segments of abdomen, rufous; remainder of abdomen and thorax piceous; tegulæ yellow, antennæ uniform reddish brown: wings yellowish fuscous, nervures and stigma brown, the latter shorter and more triangular than usual and with radius starting back of middle; areolet complete, pentangular; parapsidal depressions very large, broad and deep and uniting in a broad basin before scutellum; metathorax areolated as usual, but only rugulose and punctured: tergum of petiole with four small, distinct, parallel carinæ reaching to the apex, two lateral and two median; legs short and thickset, especially posterior femora and coxæ.

One specimen from South Dakota (Prof. Aldrich).

Exolytus aciculatus n. sp.

♂ ♀.—7-9 mm. Black, with mandibles, legs, and more or less of abdominal segments 2 and 3, rufous; antennæ black to piceous with basal portion beneath ferruginous; tegulæ yellow; apical median area of metathorax long, transversely reticulate; petiole of abdomen slightly inflated behind spiracles and finely, longitudinally aciculate or wrinkled; wings hyaline, nervures and stigma brownish red; areolet with outer nervure pellucid or wanting.

Five males and three females from Illinois (Dr. Nason), New York and Michigan.

Exolytus glaucus n. sp.

♂ ♀.—7-10 mm. Black, with mandibles, antennæ at base, legs, and segments 2 and 3 of abdomen, rufous; palpi and tegulæ yellowish: metathorax as in *aciculatus*; abdomen broad, depressed in ♂, in ♀ slender, compressed toward apex, ovipositor exerted, curved under; petiole in both sexes long, slender, scarcely perceptibly widening behind spiracles, smooth and polished; wings elongate; hyaline; areolet with outer nervure pellucid.

One female and two males from Michigan, Illinois and New York.

***Exolytus brevis* n. sp.**

♀.—5 mm. Black, with mouth-parts including clypeus, obscure anterior orbital lines, scape, tegulæ, spot before, legs and abdominal segments 2 and 3, ferruginous; antennæ and nervures and stigma reddish brown; wings hyaline, areolet complete, pentangular; metathorax as in *aciculatus*; abdomen with the petiole polished, gradually widening toward apex, arched near spiracles and subequal in length with segments 2 and 3 which, with the following, are oval and subcompressed.

Three specimens from Illinois, Michigan and Mt. Washington, N. H. (Mrs. Slosson).

***Exolytus sericeifrons* n. sp.**

♀.—8 mm. Black, with antennæ at base, mandibles, palpi, tegulæ, spot before and four anterior legs, yellowish white; median longitudinal stripe extending from apex of petiole to apex of segment 5 and widening toward apex, rufous; hind legs rufous with apex of femora, base of tibiæ and their tarsi dusky; wings hyaline, nervures and stigma reddish; areolet complete, pentangular; head and thorax curved with white pile, face very white; head very large, broader than thorax; metathorax small, completely areolated, which makes the apical median area as broad as long, areas shagreened; petiole of abdomen polished, slightly arched, not widened behind spiracles.

Two specimens from Washington.

***Exolytus cultus* n. sp.**

♀.—5-8 mm. Black, with median portion of abdomen more or less rufous, usually segments 2-5; legs rufous, with coxæ and trochanters black, hind tarsi and base of their tibiæ dusky to black; tegulæ, antennæ and mouth-parts black, mandibles sometimes piceous; wings subhyaline, outer nervure of areolet wanting; metathorax as in *aciculatus*; petiole short, polished, arched toward apex; abdomen oval, compressed toward apex.

Three females from Colorado and Illinois (Dr. Nason).

***Exolytus petiolaris* n. sp.**

♂.—5 mm. Black, with mandibles, palpi, legs beyond trochanters and abdominal segments 2 and 3 rufous; antennæ and tegulæ black; petiole very long, smooth and slender; metathorax as in *aciculatus*, except that the upper part of the petiolar area is glabrous; wings hyaline, outer nervure of areolet pellucid.

One specimen from Colorado.

***Exolytus alamagnus* n. sp.**

♂.—5 mm. Black, with clypeus, mandibles, palpi and tegulæ, yellow; scape, except most of posterior coxæ, most of abdominal segment 3, and venter at base, rufous; wings large, reddish hyaline, nervures and stigma reddish brown, outer nervure of areolet wanting; metathorax small, rugose, faintly carinate and with the two median longitudinal carinæ close and parallel; petiole of abdomen long, nearly straight and rugose on tergum; entire body is finely pilose.

One specimen from Colorado.

***Exolytus borealis* n. sp.**

♂.—5 mm. Black, with palpi and tegulæ yellow; scape, mandibles and abdominal segments 2 and 3, rufous; four anterior legs and posterior coxæ and trochanters reddish yellow, remainder of hind legs fuscous, femora beneath ru-

fous; flagellum brownish red; wings large, subhyaline, nervures and stigma reddish brown, areolet with outer nervure wanting; metathorax polished, subreticulate toward apex; petiole smooth, except median groove.

One specimen from "Hudson Bay Territory."

Exolytus concamerus n. sp.

♀.—7 mm. Black to piceous, with apical half to three-fourths of abdominal segments rufous; posterior coxæ with an elongate stripe above, rest of legs black or piceous; antennæ black to piceous with white annulus beyond middle; mouth-parts piceous to rufous; metathorax short, rugose, carinæ small, subtuberculate; petiole slender, polished, strongly arched from near the base to the apex; wings yellowish hyaline, nervures and stigma pale, latter small; areolet complete, subpentangular.

Two specimens from Mt. Washington, N. H. (Mrs. Slosson).

Exochilum petiolatum n. sp.

♀ ♂.—15 mm. Black; head, except large spot enclosing ocelli and tips of mandibles, which are black, brownish yellow; antennæ fulvous, tapering, about half as long as body and from 45 to 50 jointed; thorax in ♀ mostly dark rufous, with margin of mesonotum, spot in front of scutellum, entire sternum and basal and apical portion of metathorax, black; in the ♂ the thorax is mostly black, with scutellum and central meso- and metapleuræ rufous; upper prothorax and mesonotum piceous; abdomen black, with apex of first, lateral portion of second and base of third segments dusky rufous; legs with four anterior tibiæ and tarsi and posterior tarsi, and tibiæ except at apex, yellow; hind femora except base, and apex of tibiæ, black; in the ♀ the four anterior femora and trochanters are tinged with rufous, the anterior coxæ are piceous and the four posterior pairs are black, the posterior trochanters and base of femora are dusky rufous; in ♂ the four anterior legs are entirely yellow, the posterior trochanters and basal third of femora reddish yellow; wings fuliginous, nervures and stigma black; third discoidal cell not narrowed at base; median and submedian cells of equal length on the externo-median vein; head and thorax coarsely punctured; clypeus truncate, labrum visible; no parapsidal grooves; scutellum narrow, prominent, punctured anteriorly; metathorax coarsely reticulate, broadly depressed above; abdomen polished, strongly compressed, petiole not enlarged on apical portion nor constricted in front of the spiracles; three basal tarsi of posterior legs very thick and large.

Three specimens from South Dakota (Prof. Aldrich).

Anomalon fuliginosa n. sp.

♀.—17-22 mm. Thorax black, abdomen blue-black, shining; face, mouth-parts, scape beneath, broad orbital lines each side of antennæ, cheeks behind lower half of eyes, dot above eyes, apex of abdomen and most of anterior legs, yellow; antennæ fulvous to pale red; clypeus drawn to a sharp central point in front; head, pro- and mesothorax coarsely punctured and covered with a brown pile; parapsidal grooves present, scutellum flat; metathorax coarsely reticulate; wings fuliginous, iridescent, nervures and stigma brown; third discoidal cell not narrowed at base; legs slender, hairy; abdomen strongly compressed, blue-black, except apical half of apical segment; petiole slender, much enlarged behind spiracles; ovipositor 3 mm.

Two specimens from Michigan.

Anomalon clavatum n. sp.

♀.—20 mm. Head yellow, with vertex and occiput black, and most of cheeks behind eyes rufous; scape black above, yellow beneath; head large, deeply sunken above antennæ; face oval, clypeus broadly rounding at tip and with only a minute central projection; thorax piceous, almost black on sternum and behind scutellums; mesonotum rather coarsely punctured, without parapsidal grooves, but with coarse, transverse aciculations in front of scutellums; pleuræ shining, coarsely punctured; scutellum flat, punctured same as mesopleuræ; postscutellum oval, transversely aciculate; between postscutellum and base of secondary wings the space is coarsely diagonally aciculate; metathorax coarsely reticulate and traversed longitudinally by a deep narrow channel, which is transversely reticulate; wings yellowish fuliginous, with basal half of submedian cell and all of costal cell on hind wings a bright translucent yellow; veins brown, stigma reddish, yellow at base; third discoidal cell narrowed at base; humeral cross-vein of hind wing broken behind the middle, four anterior femora and trochanters rufous, coxæ piceous, tibiæ and tarsi yellow; hind legs with coxæ, femora and apical third of tibiæ black; trochanters and basal part of tibiæ ferruginous, tarsi yellow; petiole of abdomen rufous, slender, concave above, postpetiole scarcely enlarged; second segment piceous above, compressed; remainder of abdomen clavate, segments finely punctured, black, and strongly compressed; whole body and legs pilose; ovipositor exerted about 2 mm.

One specimen from South Dakota (Prof. Aldrich).

Anomalon smithii n. sp.

♂.—16 mm. Head, prothorax, tegulæ and large spot beneath on mesopleuræ, reddish brown; mandibles, vertex and scutellum piceous; four anterior legs, posterior tarsi and antennæ fulvous; posterior tibiæ dusky rufous on basal two-thirds, remainder of the body and legs black; wings a deep fuliginous with bluish reflection, nervures and stigma black; third discoidal cell narrowed at base; humeral cross-vein of hind wing broken below the middle; head shining, not coarsely punctured; clypeus rounded to the central point; antennæ long (about 50 joints); thorax very coarsely punctured, parapsidal grooves distinct, uniting some distance in front of scutellum; median lobe of mesonotum with a broad, deep, central depression; transverse aciculations in front of scutellum; scutellum and postscutellum coarsely punctured; metathorax coarsely reticulated, central depression broad and shallow; abdomen not strongly compressed; petiole slender, considerably broadened at spiracles and then narrowed toward apex.

One specimen from New Brunswick, N. J., and dedicated to Prof. J. B. Smith for the assistance in this work that he has given me.

Anomalon elongatum n. sp.

♀ ♂.—22–24 mm.; antennæ 18 mm. and about 65-jointed. Dusky rufous, vertex, occiput, all of the dorsum of pro- and mesothorax back to scutellum, sternum, spot on upper posterior mesopleura, ventral, basal and apical portions of metathorax, four anterior coxæ beneath, hind coxæ, basal trochanters, femora, tibiæ at apex, dorsum of second abdominal segment, apex of the third, and all of the following segments, black; face, mouth-parts, scape beneath and posterior tarsi yellow; antennæ long, fulvous, blackish on basal segments above; cheeks polished, sparsely punctured above; face coarsely and closely punctured and with quite deep and broad parallel grooves extending beneath the antennæ to the

clypeus, and an elevated ridge between them; clypeus with a sharp outward-curved central spine; thorax closely and rather coarsely punctured; without parapsidal grooves; transverse aciculations in front of scutellum strongly curved with convex side toward scutellum; scutellum flat, punctured and without central groove; metathorax strongly reticulate and with scarcely a median longitudinal depression; abdomen long, slender, strongly compressed; wings fuscous, nervures brown, stigma slender and flesh color; third discoidal strongly narrowed at base; humeral cross-vein in hind wing broken above the middle.

Two specimens from Brookings, S. Dak. (Prof. Aldrich), and Franconia, N. H. (Mrs. Slosson).

***Anomalon bipartitana* n. sp.**

♂.—24 mm.; antennæ 18 mm. and about 65-jointed. Rufous, with vertex, occiput, dorsum of prothorax, stripe on the three lobes of mesonotum, sternum, small diagonal stripe on upper posterior mesopleuræ, metasternum, lower anterior portion of metapleuræ, basal suture of metanotum, dorsum of second abdominal segment, three apical segments, posterior coxæ, basal trochanters and apex of hind tibiæ, black; posterior femora piceous; face, anterior orbital lines, scape beneath, mouth-parts, cheeks, scutellum, four anterior legs, posterior tibiæ except apex, apical trochanters and tarsi of hind legs, yellow; antennæ fulvous, blackish at base; wings yellowish, subhyaline, nervures reddish brown, stigma color of antennæ; third discoidal strongly narrowed at base; humeral cross-vein of hind wing broken close above the middle; head rugose above antennæ; cheeks polished, coarsely but sparsely punctured; face coarsely punctured, but polished; two parallel grooves beneath antennæ distinct and extend to clypeus when they diverge into still stronger grooves around the clypeus, clypeus with central apical tooth and with deep central depression above; thorax coarsely punctured; parapsidal grooves present, reticulate; scutellum oval, with a deep central longitudinal groove; transverse aciculations before scutellum, few, straight, bent only at apices; metathorax elongate at apex, strongly reticulate, concave above near apex; abdomen long, slender, moderately depressed.

One specimen from Michigan.

***Anomalon suburbe* n. sp.**

♀.—17 mm. Rufous, with large spot on vertex, occiput, apex of mandibles, prothorax, anterior median stripe on mesonotum, upper posterior angle of mesopleura, meso- and metasternum, basal portion of metathorax, region around the scutellum, spot on apical dorsum of metanotum, dorsum of second abdominal segment, ventral and dorsal portions of segments 4-6, inner basal portion of posterior coxæ, upper portion of basal posterior trochanters and apical fifth of posterior tibiæ black; antennæ short, 44-jointed, reddish brown, paler beneath toward base, four anterior tibiæ and all of the tarsi yellow; wings hyaline, nervures brown, stigma rufous; third discoidal cell not narrowed at base; second recurrent nervure strongly bent in the middle; submedian cell slightly longer than median on externo-median nervure; head and thorax coarsely punctured, pilose; face broadly concave, clypeal groove shallow, clypeus with a median tooth strongly curved outward; scutellum punctured, oval and not aciculate in front of it; no parapsidal grooves; metathorax rugose, but not or indistinctly reticulate and without median depression; abdomen slender, compressed, slightly oval; petiole scarcely broadened behind the spiracles; legs slender.

♂.—Differs in having the thorax entirely black (the scutellum varies from entirely black to entirely yellow); the legs and face are yellow instead of rufous; the basal portion of middle coxæ, all except ventral portion of hind coxæ and upper portion of posterior femora are black; the antennæ are darker with scape yellow beneath.

One female and five males from Julietta, Idaho (Prof. Aldrich).

Anomalon basilicon n. sp.

♀.—15 mm.; antennæ 10 mm. Rufous, with upper half of head, except pale orbital spots above, occiput, spot on upper prothorax, stripe beneath wings, meso- and metasternum, spot before scutellum, portion around scutellums, spots on mesonotum, posterior coxæ, basal posterior trochanter, apical half of posterior tibiæ and dorsum of second abdominal segment, black; face, entire scape, mouth-parts, lower half of cheeks, and anterior coxæ and trochanters, yellow; tarsi and four anterior tibiæ fulvous; wings large, subhyaline, nervures and stigma brown; third discoidal cell not narrowed at base; second recurrent and transverse median nervures uniting considerably back of the transverse cubital and basal respectively; humeral cross-vein broken far below the middle; head subpolished, strongly punctured above; face with median vertical ridge; clypeus with the apex elongate and elevated; thorax coarsely and strongly punctured; parapsidal grooves uniting before scutellum; scutellum broad, flat and with slight median longitudinal groove; metathorax reticulate, protruding but little at apex; abdomen long, slender, strongly compressed; postpetiole short, somewhat widened; ovipositor 3 mm.; legs slender, with hind tibiæ and tarsi inflated, the latter decreasing toward apex.

One specimen from Moscow, Idaho (Prof. Aldrich).

Anomalon clavipes n. sp.

♂.—7 mm.; antennæ 4.5 mm. Black, with face, orbital lines (broken above), scape beneath, mouth-parts, cheeks beneath, tegulæ, long line above on prothorax, four anterior coxæ and trochanters, apical trochanter of hind legs and base of basal trochanter, lemon-yellow; abdomen black, with segments 3-5 rufous, dusky on the dorsum, four anterior legs pale rufous; posterior legs with the coxæ, basal trochanter, base and apex of the femora, apical third of tibiæ and tarsi, except basal segment, black; hind tibiæ yellowish at base and with a dusky band margining this; remainder of hind legs dark rufous; antennæ black; wings hyaline, nervures and stigma brown; third discoidal cell narrowed to a point at base so that the cubital and transverse discoidal nervures unite as one; the cubital nervure between the second recurrent and transverse cubital nervure is longer than the latter and broken at juncture with second recurrent; transverse median nervure unites considerably back of basal; head punctured, face polished, sparsely punctured, clypeus not separated, pointed; thorax rugosely punctured, metathorax flat and strongly reticulate; parapsidal grooves indistinct; upper pleuræ longitudinally rugose; abdomen slender, strongly compressed beyond second segment; first two segments cylindrical, straight; spiracles on first segment tuberculate, but the postpetiole is not widened; legs slender; hind femora short, curved near apex and incrassate, not half again as long as the basal trochanter, which is much longer than the second; hind tibiæ very slender at base, but very large and thick toward apex; tibial spurs small; basal segment of hind tarsi large and as long as the femora.

One specimen from Agricultural College, Michigan, May 25th.

Anomalon alpinus n. sp.

♀.—13 mm.; antennæ 12 mm. Pale rufous, base of antennæ, median portion of vertex above, meso- and metasternum and oblique stripe beneath wings, black; face, scape beneath, mouth-parts, lower half of cheeks, anterior coxæ and four anterior trochanters, yellow; remainder of legs and the abdomen entirely rufous; wings small, subhyaline, nervures and stigma brown; third discoidal cell narrowed to a point at base; second recurrent nervure uniting considerably back of transverse cubital and transverse median considerably back of basal; humeral cross-nervure broken a little below the middle; head large, pilose, coarsely punctured; face broad, flat, sloping under; clypeus pointed, upper tooth of mandibles longest; thorax coarsely, but rather sparsely punctured; mesonotum with broadly rounding furrows uniting before scutellum; scutellum broad, flat, gradually declivous; metathorax distinctly reticulate, with median longitudinal depression and with apical portion elongate, so that the part beyond the coxal attachment is as long as the basal; abdomen slender, strongly compressed, postpetiole scarcely widened, ovipositor 1.5 mm.; legs long and slender, the heel segment not enlarged.

One specimen Mt. Craig, Idaho (Prof. Aldrich).

Anomalon rotundus n. sp.

♂.—19 mm.; antennæ 10 mm. Dark rufous to piceous, with median portion of vertex, occiput, entire prothorax, meso- and metasternum, stripe beneath wings, elongate stripe on middle lobe of mesonotum, portion surrounding scutellum, base of metathorax, stripe on dorsum of second abdominal segment and on hind legs, the upper portion of coxæ, basal trochanter and femora and the apical half of tibiæ black, or piceous black; wings hyaline, nervures and stigma yellowish; stigma larger than usual; third discoidal cell not narrowed at base, second recurrent nervure uniting with the transverse cubital, transverse median nervure uniting much back of the basal, humeral cross-nervure broken at or a little below the middle; body large and heavy set, pilose; head coarsely punctured, front concave; clypeus pointed and with a dividing groove at base; thorax large, broadly rounded and coarsely punctured; no parapsidal grooves; scutellum large, rounding; metathorax coarsely punctured, but not reticulate; abdomen large, compressed, but not strongly so; petiole comparatively short and with postpetiole slightly enlarged.

One specimen from Lawrence, Kansas (Prof. Aldrich).

Anomalon edemæ n. sp.

♂ ♀.—14-17 mm. Ferruginous, with vertex, occiput, mesonotum except margins and parapsides, scutellum at base in ♀, disc of metathorax, sternum, stripe beneath wings (the two last nearly meeting in ♀), disc of first two abdominal segments, and, on the hind legs, apical half of tibiæ, coxæ and trochanters black, the last two yellow beneath in ♂; face, mouth, scape beneath, orbital spots above, cheeks beneath; pectus, tarsi and tibiæ, except apex of hind ones, more or less pale yellow; hind femora above, and apex above in ♀, dark red; antennæ as long as body, brown; wings hyaline, nervures and stigma brown; discoidal cell not narrowed at base; head and thorax densely punctured; clypeus strongly pointed in front; parapsidal grooves broad, shallow and uniting in a shallow basin before scutellum; space before scutellum opaque, finely punctured; metathorax reticulate, rugose at base; postpetiole slightly widened, broadest at spiracles; abdomen strongly compressed.

Two specimens from Michigan and bred from pupæ of *Edema albifrons*.

Trichoma reticulata n. sp.

♀.—10 mm.; ovipositor 5 mm. Head yellow, slightly tinged with rufous behind eyes; vertex, except orbital lines, and occiput black; antennæ and teeth of mandibles reddish brown; eyes, face and cheeks hairy; thorax dark rufous, with stripe on central anterior mesonotum, prothorax except triangular portion in front of tegulæ, sternum and base and apex of metathorax, black; mesonotum has parapsidal carinæ instead of grooves; each side of these carinæ the surface is reticulate; rest of mesonotum is coarsely punctured; pleuræ shining, finely punctured; scutellum longitudinally concave, elevated posteriorly and traversed by a sharp transverse carinæ; metathorax coarsely reticulate; wings yellowish hyaline, nervures and stigma reddish brown, areolet wanting, the second recurrent nervure uniting with the cubital far back of the cubito-discoidal junction, third discoidal cell but little narrowed at base; legs rufous, anterior legs paler, posterior tarsi yellow, apex of femora and apical half of tibiæ on posterior legs, black; legs slender, posterior femora somewhat swollen; abdomen slender, strongly compressed; rufous, black on dorsum of segments two and five; most of segments six and seven piceous.

One specimen from Agricultural College, Michigan. Taken in a swamp July 25th.

Campoplex relectum n. sp.

♀.—11 mm. Black, with apex of abdominal segment 1, apical third of 2 and all of the following segments, rufous; hind legs black with their tibiæ fulvous except extreme base and apex, which are black; intermediate tibiæ and apex of their femora and all of front legs except coxæ and trochanters, fulvous; wings subhyaline, iridescent, areolet large, petiolate; head and thorax pilose, densely punctured; metathorax with lateral longitudinal ridges, between which it is broadly concave; abdomen strongly compressed, spiracles of petiole two-thirds from the base.

One specimen from Franconia, N. H. (Mrs. Slosson).

Campoplex occidentalis n. sp.

♂ ♀.—8 mm. Black, with segments 3-5 of abdomen rufous; four anterior legs yellow with their femora fulvous; hind legs black with base of femora rufous and tibiæ and tarsi piceous; mandibles, palpi and tegulæ yellow; wings hyaline, nervures and stigma dark brown; areolet petiolate; body pilose, head and thorax closely punctured; metathorax without carina.

Several specimens from Seattle, Wash. (Prof. O. B. Johnson).

Zachrasta obesa n. sp.

♀.—10 mm.; ovipositor 3 mm. Black, with mandibles, anterior legs beyond trochanters, middle legs from apex of femora, broad annulus on posterior tibiæ, abdominal segments 3-5 and apical half of 2, ferruginous; wings hyaline, nervures and stigma reddish brown; areolet large, petiolate; head and thorax pilose, finely and closely punctured, less closely on pleuræ; head flat, disc-shaped, eyes emarginate, antennæ with short segments and but little longer than head and thorax; thorax large, gibbous, but little longer than broad; metathorax without carinæ and with broad, longitudinal, concave depression; spiracles large, linear;

abdomen large, oval, not strongly compressed; postpetiole strongly inflated both vertically and laterally; legs large and strong.

One specimen from Michigan.

Casinaria compacta n. sp.

♀.—9 mm.; ovipositor 1.5 mm. Black, with abdomen rufous on apical half of segment 1, all of 2 and 3, dorsum of 4 and 5, except apex; black on all the following; mandibles, palpi, tegulæ, broad outer stripe on all tibiæ, the same continued onto four anterior tarsi and annuli at base of hind tarsi, yellowish white; rest of legs rufous except coxæ, which are black; wings subhyaline, areolet petiolate; head and thorax pilose, punctured; head disc-shaped; metathorax with deep, broad, longitudinal depression and feebly carinate toward apex; abdomen oval, long, subcompressed; petiole short, apical half much dilated.

One specimen from Colorado (Prof. Gillette).

Habronyx (?) flavistigma n. sp.

♂.—15 mm.; antennæ 12 mm. Black to piceous, with lower half of head, sutures of thorax and margins, tegulæ, scutellum and lower apical portion of metathorax, rufous; abdomen black, four anterior legs rufous, middle coxæ and basal trochanter piceous; hind legs black, with basal half of tibiæ and the tarsi fulvous; antennæ black, scape rufous beneath; wings subhyaline, nervures blackish, stigma yellow; third discoidal cell not narrowed at base; second recurrent nervure uniting considerably back of the transverse cubital, the same with the transverse median and the basal nervures; humeral cross-nervure broken far below the middle; head large, coarsely punctured above; clypeus elevated and strongly pointed; lower tooth of mandibles short and small; thorax coarsely and closely punctured, mesonotum trilobed; scutellum flat, slightly oval; metathorax flat, transversely reticulate and with broad, median, and two lateral longitudinal grooves; abdomen slender, strongly compressed, postpetiole moderately enlarged; legs long and slender; posterior tibiæ large toward apex, and tarsi large, becoming smaller toward apex; claws rather large and strongly pectinate.

One specimen from New York (H. Meeskie).

Atelenti elongatus n. sp.

♀.—11 mm.; ovipositor 6 mm. Head and thorax black, except clypeus, mandibles and palpi, which are dark rufous; legs rufous, with trochanters, tibiæ and tarsi of hind legs, black; abdomen black, with segments 3 to 5 rufous on apical half and 5 and 6 rufous at base; antennæ long, slender, many jointed; wings fusco-hyaline, nervures and stigma brown; areolet wanting, the transverse cubital vein being long and straight and the longitudinal veins continuing from it at right angles; marginal cell narrow and broadly rounded at apex; third discoidal cell somewhat narrowed at base; humeral cross-nervure of hind wing bent somewhat, but not broken; head transverse, face strongly rugose, the ridges converging to the antennæ; clypeus small, separated; thorax subquadrate, greatly elongate as in some of the Pimplinæ, finely and closely punctured, making it opaque; no parapsidal grooves, scutellum flat; metathorax considerably produced beyond insertion of hind coxæ, completely areolated, the basal median area small, while the two basal areas each side of it are large and nearly circular, the middle row

of areas are elongate and nearly rectangular; abdomen petiolate, finely punctured, shining on apical segments; spiracles of petiole placed just back of middle and from these back the petiole is greatly broadened; second segment depressed, oval and with a large central ridge beneath; remaining segments considerably compressed, but oval from above and tapering to a point at apex; ovipositor ventral; legs slender, coxæ elongate, tibiæ longer than femora and trochanters and tarsi longer than tibiæ.

One specimen from Atlantic City, N. J. (Prof. J. B. Smith).

***Pyrachmon idahoensis* n. sp.**

♀.—10 mm.; ovipositor 4 mm. Black, pilose; mandibles, palpi and tegulæ whitish; legs rufous, with the coxæ and posterior tibiæ and tarsi black; wings fusco-hyaline, veins and stigma black; areolet triangular, petiolate, incomplete on the outer nervure; head large, smooth, finely punctured; mandibles set beneath and entirely within the surrounding mouth parts; antennæ black, slender; mesonotum elevated anteriorly and with parapsidal grooves indicated; metathorax oval, and with the central area extending from apex, where it is widest, to nearly the base; this area is transversely rugose and distinctly surrounded by strong carinæ; the remainder of the metathorax is smooth and finely punctured; abdomen shining, finely punctured; petiole broad, compressed beyond second segment; the tibiæ are not pinched at the base.

Two specimens from Moscow, Idaho (Prof. Aldrich). This species will probably belong to a new genus.

***Pyrachmon aldrichi* n. sp.**

♂ ♀.—11 mm.; ovipositor 5 mm. Black, with mandibles, palpi and tegulæ whitish; legs rufous, with coxæ, posterior tibiæ and tarsi black, the last two piceous beneath; the ♂ differs in having all of the face, except median line, and four anterior trochanters, white; wings subhyaline, nervures and stigma blackish; areolet large, petiolate; head cubical, oval in front, shagreened, pilose; eyes small, mandibles sunken; antennæ very slender; thorax punctured and pilose; metathorax areolated, median apical area somewhat rugose; abdomen finely shagreened, oval, moderately compressed; petiole short, broad on apical half.

Four females and one male from Moscow, Idaho. From Prof. Aldrich, after whom I take pleasure in naming this fine species.

***Omoborus kincaidi* n. sp.**

♂.—10 mm. Black, with apical spot on mandibles, abdomen beyond middle of second segment and legs beyond trochanters, rufous; wings subhyaline, nervures and stigma black, areolet petiolate; head large, transverse; face opaquely punctured and covered with long white pile; mandibles sunken, antennæ large and rather long; thorax short, broad, punctured and pilose; metathorax oval, carinate, but lacking the basal transverse one, median apical area coarsely punctured; abdomen oval, compressed; petiole nearly straight, broad, and depressed on apical third; legs stout.

One specimen from Seattle, Wash. Sent by Prof. Trevor Kincaid, to whom I take pleasure in dedicating this interesting species.

Canidia luctus n. sp.

♀.—9 mm. Black, with legs beyond trochanters ferruginous; hind tarsi and their tibial spurs dusky; palpi and anterior edge of mandibles dusky rufous; wings fuliginous, beautifully iridescent; nervures and stigma dark brown; areolet petiolate; head and thorax polished, but closely punctured, especially on mesonotum and face; pile scarcely visible; head small, tapering toward the mouth, so that from the front it is triangular; antennæ tapering, shorter than the body; thorax short, subrotund; metathorax with subobsolete carinæ, the basal transverse one wanting; abdomen shagreened, compressed from base of third segment; ovipositor short; petiole short, postpetiole quadrate; legs rather slender.

One specimen from Mt. Washington, N. H. (Mrs. Slosson).

Cremastus ferrugineus n. sp.

♂ ♀.—7-8 mm.; ovipositor 4 mm. Ferruginous, with central vertex, occiput, v-shaped line extending from base of primary wings to middle of metathoracic disc, two apical segments of abdomen, basal half of 2 and dot at base of 3, black; base and apex of hind tibiæ and their tarsi, subfuscous; rest of head, prothorax, scutellum and four anterior coxæ and trochanters in ♂, yellow; wings hyaline, nervures and stigma yellowish brown; stigma comparatively small, oval on inner edge; body polished, shagreened; head and thorax finely and sparsely punctured, parapsides present; metathorax elongate, sloping from base, superior and apical median cells united, polished, subreticulate at base; abdomen strongly compressed beyond second segment; second segment longitudinally aciculate, most of two and apex of one very finely so.

Two specimens from Algonquin, Ill. (Dr. Nason).

Cremastus aciculatus n. sp.

♂.—7 mm. Ferruginous, with central vertex, occiput, spot on anterior of median lobe of mesonotum, metathorax except spot on pleuræ, two basal segments of abdomen, basal dorsal spot on three following and two apical entirely black; posterior tibiæ and tarsi fuscous; face, mouth-parts, orbits, cheeks, scape beneath, prothorax, tegulæ, four anterior coxæ and trochanters, and hind femora at apex, yellow; wings hyaline, nervures and stigma dark brown, paler at base; stigma large, triangular; body shagreened, thorax finely punctured, parapsides deep; metathorax completely areolated, apical median area subrugose and somewhat reticulate throughout; abdomen with the first two segments and basal three-fourths of third distinctly aciculate; postpetiole elongate.

One specimen from Agricultural College, Michigan.

Cremastus nemoralis n. sp.

♂ ♀.—6-8 mm.; ovipositor 5 mm. Black, with entire orbits, mouth-parts and tegulæ, lemon-yellow; in ♂, face and prothorax also; lower face and prothorax in ♀, four anterior legs, and of hind legs the trochanters and apex of femora reddish yellow; rest of hind legs vary from black to piceous; antennæ dark brown; abdomen varies from dark piceous to partly rufous on segments 3 and 4; wings hyaline, stigma and veins dark brown, paler at base; stigma large, triangular, thick; entire body finely shagreened, head and thorax distinctly punctured, parapsides distinct; metathorax completely areolated, carinæ at apex

distinct; apical median area not distinctly reticulate; abdomen slender, compressed, second segment longitudinally aciculate; postpetiole smooth.

Four specimens from Agricultural College, Michigan.

***Cremastus granulatus* n. sp.**

♂ ♀.—5 mm.; ovipositor 2.5 mm. Black, with thorax and middle segments of abdomen more or less piceous or rufous; orbits, face except black spot beneath antennæ in ♀, mouth-parts, prothorax tegulæ, and legs except middle of hind femora, their tibiæ and tarsi, which are fuscous, pale yellow; wings hyaline, nervures and stigma yellowish brown, the latter rather large and elongately triangular; thorax opaquely punctured, metathorax with carinæ faint toward apex where it is somewhat reticulate; second abdominal segment and postpetiole distinctly aciculate.

Six specimens from Agricultural College, Michigan.

***Leptopygus orbis* n. sp.**

♂ ♀.—8 mm.; ovipositor 4 mm. Black, with abdomen beyond second segment, ferruginous; orbits, broad in ♂, cheeks beneath, mandibles, tegulæ, and in ♂ scape beneath, spot on face; clypeus, apex of femora, slightly so in ♀, apical trochanter and four anterior coxæ, yellow; clypeus and scape beneath of ♀ rufous; coxæ black, anterior ones pale beneath; rest of four anterior legs ferruginous, hind legs piceous, nearly black in ♀; wings short, subhyaline, nervures and stigma large, brown, paler at base, discal cell considerably narrowed at base; body polished, shagreened, sparsely but distinctly punctured on thorax; parapsides indistinct; metathorax short, rounded, completely areolated, the apical median area very short, polished, coarsely reticulate in ♂; postpetiole and second segment of abdomen considerably broadened, not distinctly aciculate, but opaquely shagreened on two; legs more robust than usual.

Two specimens from Delaware County, Pa. (Chas. Johnson), and Michigan (Watkins).

***Exeiastes exploratus* n. sp.**

♀ ♂.—11 mm.; ovipositor 1.5 mm. Black, four anterior legs fulvous with coxæ and trochanters black; posterior legs with coxæ, trochanters, tibiæ, except base, which is often rufous, and basal segment of tarsi, black; hind femora rufous, and tarsal segments, except basal one, yellowish white, sometimes dusky; wings vary from fuliginous (♀) to subhyaline (♂), veins black, stigma reddish brown or black, white at base; transverse median vein of hind wing broken much above the middle, second recurrent nervure sinuate, and pale above the middle; head coarsely punctured, clypeus prolonged, shagreened, not separate, sometimes rufous; antennæ long, slender, tapering; thorax coarsely punctured, metathorax scabrous; abdomen smooth, shining, coarsely punctured on lateral base of first segment.

Twelve females and four males from So. Dakota (Prof. Aldrich) and Michigan.

At first this species was placed with *rufofemoratus* Prov., but upon accumulating so much material and finding no variation, and then

studying Provancher's type and finding it quite distinct, I feel justified in making this a new species. It also differs quite as distinctly from *niger*.

Exetastes abbreviatus n. sp.

♀ ♂.—12 mm. Black, pilose, with the clypeus, mandibles, except apex, tegulæ and spot before, white; palpi and four anterior legs from apex of femora out, and basal two-thirds of posterior tibiæ dirty white, contrasted more strongly by the black, bristly hairs on them; apex of middle tibiæ and tarsal segments more or less dusky; hind femora dusky rufous shading into black at apex; apical third of posterior tibiæ and all of hind tarsi black; remainder of legs ferruginous; wings hyaline, nervures and stigma black, paler at base; no stump of a vein above third discoidal cell, second recurrent nervure straight, areolet small, petiolate, transverse median vein of hind wing broken in middle; head transverse, punctured; clypeus short, transverse, separated from the face by a broad impression; thorax punctured, glabrous on upper posterior part of mesopleura; abdomen finely punctured, compressed from segment 3, postpetiole broad, petiole with deep central groove nearly to apex, ovipositor short.

Two females and one male from Mt. Washington, N. H. (Mrs. Slosson).

Ceratosoma rubyata n. sp.

♀.—12 mm. A deep fire-red, with tips of mandibles, spot enclosing ocelli, three stripes on mesonotum, the anterior one extending to the prothorax and the two at the side uniting in front of the scutellum, sutures of the thorax and basal half of abdominal segments 2-4, black; the posterior tibiæ are slightly dusky at apex; the entire body, including metathorax, is smooth, shining and without puncture; the abdomen is sharply pointed and segments 2 and 3 have the diagonal diverging grooves as in *Glypta*; wings dusky yellow with veins brown, stigma and costal margin the color of body, the former paler in the center.

One specimen from northern Illinois (Dr. Nason).

Arotes apicatus n. sp.

♀.—11 mm.; ovipositor 8 mm. Black with lemon-yellow marking as follows: anterior orbits, yellow spot on front beneath antennæ, clypeus, mouth-parts except tip of mandibles, cheeks beneath and back of eyes, scape beneath, annulus on antennal segments 10-20, tegulæ, spot beneath, prosternum, scutellums, apex of metathorax, a median dorsal rhomboidal spot at apex of segments 1-4, apical segments and venter; posterior legs with coxæ black, trochanters yellow, femora and tibiæ ferruginous, tarsi fulvous, four anterior legs lemon-yellow, with femora tinged with ferruginous and coxæ dusky above; the entire body is shining, sparsely punctured, and from each puncture issues a small hair; face coarsely punctured; wings hyaline, with a short transverse fuscous line extending from the center of the stigma obliquely across the marginal vein; apex of wing, opaque by a dark brown blotch, abbreviated beneath; veins brown, stigma honey-yellow, except a longitudinal dash below near the origin of the marginal vein; recurrent and cubital nervures coalesce.

One specimen taken in woods at Agricultural College, Michigan, July 8th.

***Colpomeria litoralis* n. sp.**

♂.—7 mm. Black, with maxillary palpi, tegulæ, spot in front, trochanters, tibiæ and tarsi of middle legs and annuli at base and middle of tibiæ and another at base of tarsi of the hind leg, yellowish white; the remainder of the legs are ferruginous, except hind tibiæ and tarsi, which are brownish black; labial palpi brown, antennæ brown, sericeous, yellowish beneath toward the apex, scape black; wings hyaline, veins and stigma black, whitish at base, areolet large, subquadrate, clypeus emarginate; head and thorax shining, metathorax sparsely punctured and with two central longitudinal carinæ; mesonotum indistinctly trilobed; basal segment of abdomen scabrous and with two large carinæ; the following segments become less deeply punctured, until on the apical segments they are shining and only lightly punctured; apex of each segment with a shining impunctured band; the anterior femora and tibiæ are shaped as in the European species.

Numerous specimens taken in sweeping along the river bank at the Agricultural College; also specimens from Buffalo, N. Y. (Van Duzee), and Toronto, Canada (Brodie).

***Pimpla componotus* n. sp.**

♂.—11 mm. Black, with face, mouth-parts, cheeks beneath, orbital lines above, tegulæ, spot in front, spot beneath each wing, large cuneiform spot on margins of mesonotum, two parallel stripes on mesonotum, scutellums, large spot on anterior mesopleuræ, pro- and mesosternum, four anterior legs beneath, annulus on middle of four posterior tibiæ and most of posterior tarsi, white; remainder of hind legs rufous, except tibiæ and apex of femora and tarsal segments, which are black; antennæ black, slightly pale beneath; wings fusco-hyaline, nervures and stigma brown; areolet large, pentangular, cubito-discoïdal vein not broken and with no stump of a vein, humeral cross-vein of hind wing broken much above the middle; head and thorax polished, scarcely punctured; abdomen coarsely and closely punctured; clypeus large, flat, not indented.

One specimen from Moscow, Idaho (Prof. Aldrich).

***Pimpla stultor* n. sp.**

♂.—8 mm. Slender, black; palpi, scape, tegulæ and spot in front, white; mesothorax, except portion beneath wings, and metapleura dark rufous; legs reddish yellow, hind femora and coxæ rufous, hind tarsi, apex and narrow outer stripe on tibiæ dusky, antennæ reddish brown; wings hyaline, iridescent, nervures and stigma pale brown, areolet sessile, triangular; cubito-discoïdal vein broken and with a long stump of a vein, humeral cross-nervure of hind wing broken at middle; body polished, abdomen sparsely but coarsely punctured, no distinct carinæ on metathorax.

One specimen from Toronto, Canada (Mr. Wm. Brodie).

***Pimpla defensor* n. sp.**

♀.—8-10 mm.; ovipositor 2.5 mm. Black, with palpi, orbital lines from base of antennæ to occiput, apex of scutellum and postscutellum, white; legs honey-yellow, with anterior coxæ, trochanters and tarsi, annulus at base and broader one at middle of all the tibiæ and basal half of four posterior tarsal segments,

white; posterior femora at apex, four posterior tibiæ near base and at apex, and four posterior tarsi on apical half of each segment black; abdomen uneven, coarsely punctured, basal segment tuberculate above; thorax smooth, shining; punctures apparent on metathorax, which is otherwise smooth; wings hyaline, nervures and stigma brown; areolet large, the second recurrent not entering at the apex; antennæ brown, whitish beneath near base, scape black.

Two specimens from Agricultural College, Michigan, taken October 13th.

***Pimpla conquisitor*, var. *rufuscula* n. var.**

♀.—Differs from *conquisitor* (1) by having the abdominal segments margined at apex and laterally with rufous, the lateral apical corners in one specimen being broadly rufous; (2) by the antennæ and palpi being brownish rufous; (3) by having the tarsi pale rufous, with apical segment and claws black; the apical portion of all tarsal segments is more or less dusky.

Two females, Michigan and northern Illinois (Dr. Nason).

***Polysphincta spinosa* n. sp.**

♀.—7 mm.; ovipositor 3 mm. Black, with abdomen piceous, darker at apex; head shining, pilose; clypeus dark rufous, palpi white, antennæ pale brown, nearly white at base; thorax black, with scutellum and lower posterior portion of mesopleura rufopiceous; metathorax rufous, dusky above and black on posterior disc; legs honey-yellow, with four anterior trochanters, base, middle and spurs of four posterior tibiæ and all of tarsi, except apex of segments which are brown, white; four posterior tibiæ with brown annulus at apex and another one-fifth from the base; abdomen opaque, punctured, with apical ridge of segments and two apical segments shining; metathorax punctured, convex on dorsum, truncate and concave at apex owing to the protrusion of two large, broad, round spines at the lateral apex; wings subhyaline, areolet wanting, stigma white.

***Polysphincta bicarinata* n. sp.**

♂.—7 mm. Black, with palpi, tegulæ, line in front, trochanters, anterior coxæ, apical half of middle coxæ, apex of all femora, four anterior tibiæ and tarsi, broad stripe on posterior tibiæ, extending from the base nearly to the apex, and basal half of first tarsal segment of hind tarsi, white; remainder of hind legs ferruginous, except hind tibiæ and tarsi, which are black; antennæ brown; wings hyaline, areolet wanting, small stump of cubital cross-vein present, nervures and stigma brown; head and thorax polished; mesonotum trilobed, sparsely and finely punctured; metanotum oval, bicarinate and coarsely punctured; abdomen uneven with prominent swellings and broad deep grooves, coarsely and closely punctured even on apical margins of segments; basal segment bicarinate, deeply grooved at base between carinæ.

One specimen from Moscow, Idaho (Aldrich).

***Polysphincta slossonæ* n. sp.**

♀.—5-6 mm.; ovipositor 1.2 mm. Slender, black, marked with white and rufous; head black, polished; clypeus slightly projecting, palpi and scape white, antennæ brown, dirty white beneath; thorax black, with scutellum, rectangular

spot in front of it on mesonotum, meso- and metapleura, except upper portion and sternum, rufous; abdomen brown, with venter more or less white; legs white, femora yellowish white, posterior legs with brown annulus at base and apex of femora, one between base and middle of tibiæ and at apex of tibiæ and tarsal segments; wings hyaline, nervures and stigma pale brown, white at base, outer vein of areolet incomplete at base and apex; ovipositor short, strong, slightly ventral; thorax and abdomen shining and sparsely punctured.

Five specimens from Mt. Washington, N. H. (Mrs. Slosson) and named in honor of her for the many new specimens sent me.

***Polysphincta minuta* n. sp.**

♀.—4 mm.; ovipositor 1 mm. Piceous, with mouth-parts, face beneath antennæ; lower portion of antennæ, prothorax, tegulæ and portion around it, parapsidal lines, scutellum, broad apical and lateral margins of abdominal segments and legs, honey-yellow; wings hyaline, iridescent, nervures and stigma brown; areolet wanting, the cubital nervure forming a direct line with the base of marginal, humeral cross-nervure of hind wing not broken; body polished, parapsidal grooves deep; metathorax carinate, lacking the basal transverse carinæ; abdominal segments broad, deeply indented, forming central rhomboidal raised areas, the indentures reticulate.

One specimen from Agricultural College, Michigan.

***Polysphincta granulosa* n. sp.**

♀.—3 mm. Black, with mouth-parts, base of antennæ beneath; tegulæ, spot in front and beneath, trochanters, four anterior coxæ and four posterior tibiæ, except apex, white; four posterior tarsi and apex of their tibiæ brownish black, remainder of legs honey-yellow; wings hyaline, iridescent, nervures and stigma brown, areolet wanting, the cubital cross-vein scarcely visible; head and thorax polished, impunctured, metathorax and abdomen granularly shagreened; mesonotum trilobed, metathorax areolated, but lacking the basal transverse carina, basal segment of abdomen with distinct carinæ, the following segments with a convex transverse impression before the apex, ovipositor short, straight.

One specimen from Agricultural College, Michigan.

***Clistopyga nigrocephalus* n. sp.**

♂.—3 mm. Black, with mesothorax, except anterior part of median lobe of mesonotum, scutellum and metapleura, rufous; scape, mouth-parts, tegulæ, spot in front, spot beneath, margins of mesonotum, basal portion of abdominal segments 2-4, four anterior legs, posterior trochanters and annulus at base and middle of posterior tibiæ, white; posterior coxæ and femora rufous; posterior tibiæ dusky, except the white annulus, tarsi dusky, paler at base; wings hyaline, iridescent, nervures pale brown, stigma darker, areolet wanting; antennæ dark brown; head glabrous, thorax and abdomen shagreened; distinct parapsidal grooves, metathorax with carinæ on apical portion, abdominal segments with rhomboidal elevations.

One specimen from Algonquin, Ill. (Dr. Nason).

Glypta idahoensis n. sp.

♀.—6 mm.; ovipositor 5 mm. Black and rufous, pilose; head and antennæ black, clypeus and base of mandibles rufous, palpi paler; entire mesothorax, scutellum and metapleuræ and sternum, rufous; prothorax and metanotum black; abdomen black, with the sutures of segments 1-4 and lateral fourth of all the segments rufous, or dusky rufous; legs rufous, anterior coxæ, four anterior trochanters, four posterior tarsi on basal half of segments, annulus at base of posterior tibiæ and a long stripe in middle of same, white; apex of segments of four posterior tarsi and apex and annulus near base above and stripe beneath on posterior tarsi, black; anterior legs with tibiæ and tarsi yellowish white; face with prominent tubercle; thorax and abdomen finely and rather closely punctured so that there is little luster; metanotum truncate behind; margined by a transverse carina; from this carina are two longitudinal converging carinæ on metanotum that unite behind postscutellum; oblique sutures on abdomen rather broad and deep.

Two specimens from Lewiston and Moscow, Idaho (Prof. Aldrich).

Glypta aldrichii n. sp.

♀ ♂.—10 mm.; ovipositor 7 mm. Black, pilose, coarsely and closely punctured except on two apical segments of abdomen; clypeus, labrum, mandibles except tips, palpi, tegulæ, short line in front, and anterior coxæ and trochanters in ♂, yellowish white; remainder of legs rufous, except apical half of posterior tibiæ and all of posterior tarsi, which are black; mesonotum gibbous, metathorax quadrispherical, fully and distinctly areolated; basal segment of abdomen with carinæ reaching nearly to the apex; antennæ rufous, dusky above, darker in ♀; wings subhyaline, nervures and stigma brown, areolet wanting.

Two specimens from Lewiston and Moscow, Idaho, and named in honor of Prof. J. M. Aldrich, who has contributed so many rare western Ichneumonidæ.

Glypta nomene n. sp.

♀.—8 mm.; ovipositor 4 mm. Pale ferruginous, with yellow markings as follows: annulus on antennæ, broad orbital lines on vertex, cheeks, clypeus, mouth-parts, tegulæ, prothoracic collar, prosternum, broad irregular stripe on meso- and metapleuræ, the latter continuing around the apex of the metathorax, scutellums, four anterior coxæ and stripe on posterior pair; head and mesothorax finely punctured, metathorax more coarsely punctured and with two indistinct transverse carinæ; abdomen with basal segment long, oval, without carinæ; segments two and three with oblique grooves, four with shallow impressions; three basal segments punctured as the metathorax, apex shining; wings hyaline, nervures brown, stigma yellowish white.

One specimen from Colorado (Prof. C. P. Gillette).

Glypta longicauda n. sp.

♀.—10 mm.; ovipositor 13 mm. Black, with tegulæ dusky white, and clypeus, mandibles and legs, except posterior tarsi which are black, rufous; face pilose and with prominent central tubercle; clypeus shining; antennæ black, shining; thorax and abdomen shining, coarsely and evenly punctured throughout, except

on mesopleuræ, beneath hind wings and on apical segments of abdomen, which are scarcely punctured; metanotum without carina; abdomen broad, depressed, carinæ on basal segment indicated, oblique grooves on the three following segments are deep and broad; wings fusco-hyaline; veins and stigma dark brown; areolet wanting; legs slender, shining.

One specimen from Moscow, Idaho (Prof. Aldrich).

Glypta impressa n. sp.

♂ ♀.—6 mm.; ovipositor 9 mm. Black, with clypeus, lateral apical mesopleuræ and all of metapleuræ rufous; palpi, tegulæ, line before on upper margin of prothorax, trochanters, knees, anterior coxæ, annulus on base and middle of posterior tibiæ and at base of first three tarsal segments of four posterior tarsi white; hind tibiæ and tarsi black; remainder of legs rufous; antennæ slender, black, brown beneath; wings hyaline, nervures and stigma brown; body punctured, polished; face tuberculate, hairy; abdomen with deep impressions on segments 2-4, ovipositor long, slender and with very slender shields.

♂ differs in having the abdominal impressions less distinct, and in having the clypeus, scape beneath and more of the four anterior legs white.

Three specimens from Algonquin, Ill. (Dr. Nason).

Meniscus subflavus n. sp.

♂ ♀.—6 mm.: ovipositor 4 mm. Dark yellowish red, with face, mouth-parts, broad orbital lines, scape beneath, all of the thorax except mesonotum and tinge on metanotum, and nearly all of the legs, dirty lemon-yellow; antennæ and apex of posterior tibiæ and tarsal segments dusky: spots enclosing ocelli blackish; wings hyaline, iridescent, nervures and stigma brown, areolet wanting, humeral cross-nervure of hind wing not broken; thorax coarsely punctured, head and abdomen less so, metathorax without carinæ, no parapsidal grooves, but they are indicated by yellow lines; legs slender, posterior coxæ elongate.

Two specimens from Texas (coll. Amer. Ent. Soc.).

Phytodietus (?) truncatus n. sp.

♀.—2 mm.; ovipositor .5 mm. and curved upward. Piceous, with face, mouth-parts, broad orbital lines, tegulæ, spot beneath, line in front, margins of mesonotum, legs and venter, yellow; antennæ large, as long as thorax and abdomen reddish brown, paler beneath; wings hyaline, iridescent, nervures and stigma brown, yellow at base, areolet triangular, sessile; head and thorax shagreened, abdomen partially so; clypeus large, lower tooth of mandibles longer than upper; no parapsidal grooves nor carinæ on metathorax; abdomen subsessile, broad toward apex, where it is truncate and subcompressed.

One specimen from Brookings, So. Dak. (Prof. Aldrich).

Cylloceria fuscolina n. sp.

♂.—8 mm. Black, with legs beyond the trochanters rufous; antennæ dark rufous, paler toward apex; scape black; wings milky rufous, veins and stigma rufous; head punctured, clypeus separated; face roughened beneath antennæ; thorax shining, punctured; mesonotum trilobed; metanotum carinate, roughened and coarsely punctured; basal segment of abdomen scabrous, spiracles near base; remainder of segments finely punctured.

Two specimens from Colorado (Prof. Gillette).

Xylonomus eatomus n. sp.

♀.—22 mm.; ovipositor 23 mm. Black, to dusky fuscous; head closely and coarsely punctured, dusky rufous, with dusky spot on vertex around ocelli and extending downward to the antennæ; labial palpi and mandibles piceous; maxillary palpi long, slender at apex; antennæ black, with pale annulus on segments 14–16; scape small, rufous; thorax piceous, paler on mesonotum and pleuræ, coarsely and closely punctured, sometimes scabrous; mesonotum trilobed; scutellum prominent, coarsely punctured and with central longitudinal carina; metanotum with four distinct, irregular, longitudinal carinæ, the outer ones culminating in a short, sharp spine; prothoracic shoulders square, but not tuberculate; abdomen opaque, owing to the fine transverse striæ; two basal segments color of the head, the others black; apex tapering, pointed; basal segment long, gradually expanded; wings subhyaline, transversely clouded beneath apical half of stigma; from this clouded band to the apex, hyaline; stigma brown, paler in center and white at base; veins brown, ferruginous at base; anterior legs, middle coxæ and trochanters of hind legs dusky rufous; middle femora and tibiæ piceous to rufous; hind coxæ, femora and tibiæ black to piceous, tarsi fulvous; four anterior tibiæ much pinched at base.

Two specimens from Craigs Mountain and Moscow, Idaho (Prof. Aldrich).